

APD 125 A

Engine : Aksa
Alternator : Aksa
Control System : P 602

AKSA POWER DIESEL



ISO8528

This generator set has been designed to meet ISO 8528 regulation.

SZUTEST

This generator set is manufactured in facilities certified to ISO 9001.



This generator set is available with CE certification.

2000/14/EC

Enclosed product is tested according to EU noise legislation 2000/14/EC

3 Phase Ratings, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	125,00	100,00	115,00	92,00	166,00

Standby Rating (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

STANDARD SPECIFICATIONS

- Heavy duty, water cooled diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant heater
- Steel base frame and anti-vibration isolators
- Spare external fuel tank (open set)
- Flexible fuel connection hoses
- Two bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Enclosure: weather protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

TRANSFER SWITCH

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

APD 125 A

Engine : Aksa
Alternator : Aksa
Control System : P 602



DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa
Model		A6CRX65TI
No. of Cylinders and Build		6 Cylinder, In Line
Aspiration and Cooling		Turbo Charged and After Cooled
Maximum Standby Power		1500 rpm
		161,00 kW [160,00HP]
Total Displacement	L	6,490
Bore and Stroke	mm	105 x 125
Compression Ratio		17:1
Rated Speed (rpm)	rpm	1500
Governor		Electronic
Oil Capacity	L	16,00
Coolant Capacity	L	26,00
Intake Air Flow	m ³ /min.	9,80
Radiator Cooling Air	m ³ /min.	190,00
Exhaust Gas Flow	m ³ /min.	26,70
Start System		24 V d.c.
Fuel Consumption	Load	%100
	L/h	26,30

ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK492
Frequency	Hz	50
Power	kVA	115,00
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	165,00
Insulation Class		H

DIEMENSIONS AND WEIGHT

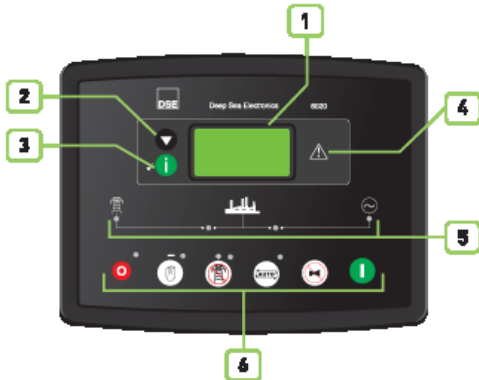
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 125 A	1510,00	2300,00	1100,00	1680,00	350,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 6	1940.00	3270	1170	1870	350

APD 125 A

Engine : Aksa
Alternator : Aksa
Control System : P 602

AKSA POWER DIESEL

1 P 602 - Control System



- 1 A U]b`gHh g`X]gd`Unf
- 2 8]gd`UmgVfc`Vi Hrcb"
- 3 DU[Yf]bZcfa UHcbEVi Hrcb"
- 4 7 ca a cb`U`Ufa`]bX]WUrcf"
- 5 GHh g`@98fg"
- 6 C dYfU]cb`gY`YV]b[`Vi Hrcbg"

2 Devices

8G9ža cXY`*\$\$`5i hc`A U]bg: U]i fy`Vebfc`a cXi`Y"
6UHYfmVUf[Yf`]bdi h%, !&* (`j`c`h`ci`hdi`h`&+Z`J`) `5`f&(`J`Ecf`%`Z`J`c`h) 5`f&W`L`
9a Yf[YbVmgcd`di`g`Vi`Hrcb`UbX`Z`gYg`Zc`Vebfc`V]fV`Jrg"

3 Construction and Finish

7 ca dcbYb]g`]bgU`YX`]b`g`YYhg`YY`YbWcgi`fy`"D\cgd`UHY`WYa`]W`ZdfY!VtU]b[`cZghY`dfcj`]XYg`Veffcg]cb`
fyg]g]Ubhgi`fZ]W`"Dc`mYgY`Vt`a`dcl]Y`dck`XYf`hcdVt`Uhz`fa`g`\` \` [`cgg`UbX`Yi`HfYa`Y`mXi`fUV`Y`Z]b]g`"acW`UV`Y`
UbX`\]b[`YX`dUbY`Xccf`dfcj`]XYg`YUgmUWV`gg`hc`Vt`a`dcbYb]g"

4 Installation

7 cblfc`dUbY`]g`a`ci`bHYX`cb`VUgYZUa`Y`k`]h`ghY`ghUbX`"acW]HYX`Uhi`Y`f[\`hg]XY`cZ`H`Y`[`YbYfUrcf`gYhfK` \`Yb`nci`
`cc`_`Uhi`Y` ;`Yb`GYH`Zca`5`HYfbUrcfL`

5 Generating Set Control Unit

H\Y`8G9`*\$\$`]g`U`g]UbXUfX`Vebfc`a`cXi`Y`Zc`fi`f`[`YbYfUrcf`gYhg`i`d`hc`&\$\$_J`5`UbX`ih`Uj`Y`VYYb`XYg][`bYX`hc`
ghUfhUbX`ghcd`X]YgY`UbX`[`Ug`[`YbYfUrcf`gYhg`H\Y`8G9`*\$\$`a`cXi`Y`Ug`VYYb`XYg][`bYX`hc`a`cb]rcf`[`YbYfUrcf`
Z]ei`YbWtj`c`h`W`fYbH`Yb[`]bY`c`[`dfYggi`fYZVt`c`UbhiYa`dYfUhi`fy`fi`bb]b[` \`ci`fg`UbX`VUHYfmj`c`hg`"A`cXi`Y`
a`cb]rcf`g`H\Y`a`U]bg`gi`dd`mUbX`gk`]W`c`[`Yf`hc`H\Y`[`YbYfUrcf`k`Yb`H`Y`a`U]bg`dck`Yf`Z]g`"H\Y`8G9`*\$\$`Ugc`
]bX]W]Yg`cdYfU]cbU`ghUhi`g`UbX`Z]i`h`Vt`bX]h`cbgZ`5i`hca`U]W`mgvi`H]b[`Xck`b`H`Y` ;`Yb`GYhUbX`[`]`]b[`Hfi`Y`Z]fghi`d`
Z]i`h`Vt`bX]h`cb`cZ` ;`Yb`GYhZ]i`fy`H\Y`@78`X]gd`Um]bX]W]Yg`H\Y`Z]i`H`

Standard Specifications

A`]WcdfcW`ggcf`Vebfc`YX`
@78`X]gd`Uma`U`Yg`]bZcfa`U]cb`YUgmhc`fYUX`
(!`]bYz`*(`1`%`&d]Y`X]gd`Unf`
5i`hca`U]W`mifUbgZ]fg`VYH`YYb`a`U]bg`fi`H]h`hc`UbX`[`YbYfUrcf`dck`Yf`
A`Ubi`U`dfc[`fUa`a`]b[`cb`ZcbhdUbY`"
I`gYf]Z]YbX`mgYH`i`d`UbX`Vi`Hrcb`Unrci`H`
:`fcbhdUbY`dfc[`fUa`a`]b[`"
F`Ya`cH`ghUfh`
9j`Ybhi`c`[`]b[`f`\$`\$g`ck`]b[`XUfY`UbX`hja`Y`
7 cblfc`g`Ghcd`F`YgYh`A`Ubi`U`Z`5i`hcz`HYgh`GHUfh`Vi`Hrcbg`"5b`UXX]h`cbU`di`g`Vi`Hrcb`bYi`hrc`H\Y`@78`X]gd`Um]g`
i`gYX`hc`gVfc`H`fci`[` \`H\Y`a`cXi`Y`gfa`YHf]b[`X]gd`Umg`"

APD 125 A

Engine : Aksa
Alternator : Aksa
Control System : P 602



Instruments

9B: 49
9b[]bY'gdYYX"
C]'dFYggi fY"
7cc'UbhY'a dYfUhi fY"
F i b'ha Y"
6UHYfmj c'lg"
7cbZ[i fUV'Y'ha]b["
; 9B 9F 5HC F
J c'U[Y'f@ @B L"
7i fFYbh f@ @L"
: fYei YbVW"
A 5-BG
J c'U[Y'f@ @B L"
: fYei YbVW"
A U]bg fYUXn"
A U]bg YbUVYX"
; Yb"GYhfYUXn"
; Yb"GYhfYbUVYX"

Protection Circuits

K 5F B-B;
7\Uf[Y'Z]i fY"
6UHYfm@ck #][\j c'U[Y"
: U]'hc'ghcd"
@ck #][\j [YbYfUhf'j c'U[Y"
I bXYf#j Yf[YbYfUhf'j fYei YbVW"
Cj Yf# bXYf'gdYYX"
@ck c]'dFYggi fY"
<][\ V@c'UbhY'a dYfUhi fY"
G<I H'8CK BG
: U]'hc'ghUf"
9a Yf[YbVW'ghcd"
@ck c]'dFYggi fY"
<][\ V@c'UbhY'a dYfUhi fY"
Cj Yf# bXYf'gdYYX"
I bXYf#j Yf[YbYfUhf'j fYei YbVW"
I bXYf#j Yf[YbYfUhf'j c'U[Y"
C]'dFYggi fY'gYbgcf'cdYb"
7cc'UbhY'a dYfUhi fY'gYbgcf'cdYb"
9@97 HF 75@HF D
; YbYfUhf'c'j YfVW fYbH

Options

: 'YI J'Y'gYbgcf'VWb VY V@c'UbhY'a dYfUhi fY'Z
dFYggi fY'Z dYfVW'bU[Y'fU'fU]b[#g\i fXck b#Y'VW'VW'f'dL
@cVW'gYH]b['dUfUa YHf'g'UbX'a cb]h'f]b['Zca 'D7 hc
V@c'UbhY'a cXi 'Y'k]h' I G6 V@c'UbhY'a cb'fU' UI '*a H'

Standards

9'YVW'VW'GUZYhm#9A 7 V@a dUHV']hm6G'9B '*\$-) \$
9'YVW'VW'Vi g]bYgg'Yei]da YbH
6G'9B '*%\$!*&9A 7 'ja a i b]hmg'UbXUfX"
6G'9B '*%\$!*&('9A 7 'Ya jgg]cb'gh'UbXUfX"

Static Battery Charger

'6UHYfmVUf[Yf]g'a Ubi ZUV' fYX'k]h'gk]h'V]b[!a cXY'UbX'GA 8 fYV'bc'c[mUbX'ih\Ug\][\ YZ]VbYVW' 6UHYfmVUf[Yf
a cXY'gfci hdi hJ !=VUfUW'f]gh]W]g'j YfmV'cgY'hc'gei UfY'UbX'ci hdi h]g' 'Ua dYfZ% ž 'J 'Zcf%&j c'hUbX'&+ž' 'J 'Zcf'&('J '"
#di h% , 'I'&*('j c'h57'"Dfc]bY'&(\$) '\Ug'Z 'mici hdi hg\chV'VW]hdfchV'VW]cb'UbX'ihVWb'VY'i gYX'Ug'U'VW fFYbhgc'fVW"
Dfc]bY'&(\$) #&(\$) 'VUf[Yf\Ug\][\ YZ]VbYVW'cb['JZ'Z'ck ZU]i fY'fUfY'Z][\hk Y][\hUbX'ck \YUhfUX]UfYX']b
UVV'fXUbVW'k]h']bYUf'U'fYbU]j Yg' H\Y VUf[Yf]g'Z]hYX'k]h' U'dfchV'VW]cb X]cXY'UV'cg'g'hY'ci hdi H'7 cbbYV'VW'Uf[Y'Z]
fY'UmV'Z' VYfk YbY'dcg]h]j Y'ci hdi hUbX'7: 'ci hdi H'fY'YmUfY'Yei jddYX'k]h' F: =Z]fYf'hc'fYXi VV'Y'VW'VW'bc]gY'fUX]UfYX
Zca 'hY'XYj jVW'; Uj Ub]VW'm]gc'UfYX']bdi hUbX'ci hdi h]md]VW'm(_J 'Zcf\][\ fY']UV']h'f

APD 125 A

Engine : Aksa
Alternator : Aksa
Control System : P 602



1 ASM 6 - Canopy



- 1 Steel structures.
- 2 Emergency stop push button.
- 3 Control panel is mounted on the baseframe .
- 4 Corrosion-resistant locks and hinges.
- 5 Exhaust system in the canopy.
- 6 special large access doors for easy maintenance
- 7 Base frame -fuel tank.
- 8 Lifting Points.

2 Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies (8 - 275kVA) fit directly to the open generator set to provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

3 Standard Specifications

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and base-tank are pre-assembled, pre-integrated and shipped as one package

Body made from steel components treated with polyester powder coating

Fire retardant foam insulation

Easy access to all service points

Exhaust system inside canopy

Large doors on each side

Control panel viewing window in a lockable access door

Emergency stop push button mounted on enclosure exterior

Cooling fan and battery charging alternator fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of canopy and base frame

Customer options available to meet your applications needs.

Width	mm.	1170
Lenght	mm.	3270
Height	mm.	1870
Fuel Tank Capacity	L	350